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•	L 5315-66 ACCESSION NR: AT5023642		2	
	ASSOCIATION: Vecsoyumneya komi Mosoow (All-Union Conference on	ferentsiya po fizike kommiches a Space Physics)	skogo prostranstva,	
•.	SUMMITTED: 028ep65	ESCL: 02	SUB CODE: ES, MP	
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NIKOLIN, A.V., glav. revizor po bezopasnosti sudokhodstva, red.;

PIROZHKOV, N.I., kapitan-nastavnik, red.; POLETAYEV,

L.A., kapitan-nastavnik, red.; KCZIN, N.A., kapitan,

red.; KUZNETSOV, B.Yu, kapitan, red.; TARASOV, A.G.,

kapitan, red.; VYKHODTSEV, P.K., red.; PERVYAKOV, V.V.,

kapitan, red.; VYKHODTSEV, P.K., red.; PERVYAKOV, V.V.,

red.; SIDOROV, F.G., red.; SOLOV'YEV, V.B., red.;

SHIRINKIN, A.D., red.; SHCHEPETOV, I.A., red.; SMIRNOV,

SHIRINKIN, A.D., red.; SHCHEPETOV, I.A., red.; LOBANOV, Ye.M.,

FILYASOV, K.A., red.; IVANOV, A.I., red.; LOBANOV, Ye.M.,

red.izd-va; REMNEVA, T.T., tekhn. red.

[Rules for the navigation on inland shipping routes of the R.S.F.S,R.] Pravila plavaniia po vnutrennim sudokhodnym putiam RSFSR. Vvedeny v deistvie s 15 marta 1963. g. priputiam ministra rechnogo flota No.33 ot 28 fevralia 1963. g. Moskva, Izd-vo "Rechnoi transport," 1963. 98 p. (MIRA 16:6)

1. Russia (1917- R.S.F.S.R.) Ministerstvo rechnogo flota. (Inland mavigation-Laws and regulations)

Seminar on the exchange of experience in manufacturing water emulsion paints. Lakokras.mat.i ikh prim. no.1:92 '62.

(MIRA 15:4)

(Paint)

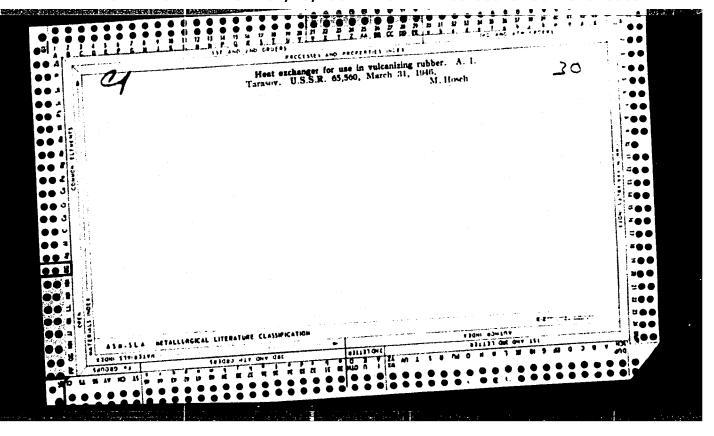
GOROKHOV, A.M., putevoy rabochiy; BESEDOVSKIY, D.A.; TARASOV, A.I.; KRIVOBOK, G.K.; MOISEYENKO, A.D., inzh.-mekhanik; YUR'YAKS, P.I. [Jurjaks, P.]; IBRACIMOV, A.A.; SAPROHOV, V.S.; SHAROV, N.N.

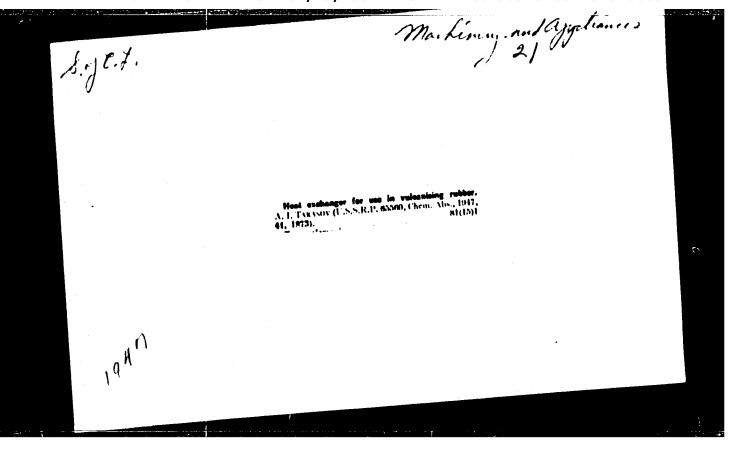
Letters to the editor. Put' i put.khoz. 7 no.4:40-42 163. (MIRA 16:3)

1. Stantsiya Talovaya, Yugo-Vostochnoy dorogi (for Gorokhov). 2. Nachal'nik distantsii zashchitnykh lesonasazhdeniy, stantsiya Atkarsk, Privolzhskoy dorogi (for Besedovskiy). 3. Nachal nik putevoy mashinnoy stantsii, stantsiya L'gov, Moskovskby dorogi (for Tarasov). 4. Sekretar' partiynoy organizatsii stantsii Nikitovka,, Donetskoy dorogi (for Krivobok). 5. Stantsiya Nikitovka, Donetskoy dorogi (for Moiseyenko). 6. Brigadir puti, stantsiya Platone, Pribaltiyskoy dorogi (for Yur'yaks). 7. Zamestitel nachal'nika distantsii, Sal'yany, Zakavkazskoy dorogi(for Eragimov). 8. Starshiy normirovshchik, stantsiya Rtishchevo, Privolzhskoy dorogi (for Safronov). 9. Sekretar! partiynoy organizatsii, stantsiya Rtishchevo, Privolzhskoy dorogi (for Sharov).

(Railreads-Maintenance and repair)

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754920009-4





TARASOV, A.I.

137-1957-12-23222

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 52 (USSR)

Ivanov, O.S., Tarasov, A.I. AUTHORS:

A Device for the Maintenance of Required Temperatures in Pro-TITLE:

gramed Heating and Cooling Operations (Prisposobleniye priborov

dlya podderzhaniya zadannykh temperatur k programmnomu

nagrevu i okhlazhdeniyu)

Tr. In-ta metallurgii AN SSSR, 1957, Nr 1, pp 196-198 PERIODICAL:

A description of a device consisting of 0.1 mm Pt wire wound around a pulley and capable of maintaining any desired small rate ABSTRACT:

of heating or cooling in the furnace by means of a contact galvanometer or potentiometer; the device slides downward with a constant velocity along a stationary contact under the influence of a load and a timing mechanism; a second contact is attached to the other end of the wire. The Pt wire serves as a conductor for a current, the magnitude of which is controlled by a resistor. The contact galvanometer maintains a constant value of the sum

of the emf $\mathbf{E_t}$ of the thermocouple and of the voltage drop $V_{\mathbf{d}}$ in

the Pt wire, which increases with the descent of the wire; thus Card 1/2

CIA-RDP86-00513R001754920009-4 "APPROVED FOR RELEASE: 07/13/2001

137-1957-12-23222

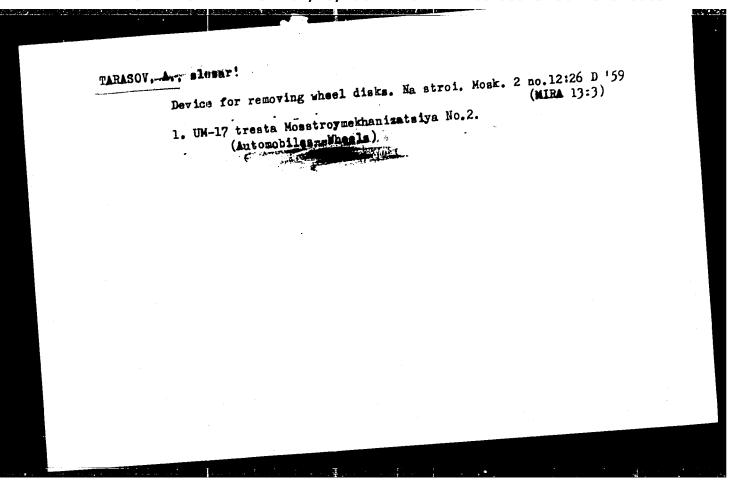
A Device for the Maintenance of Required Temperatures (cont.)

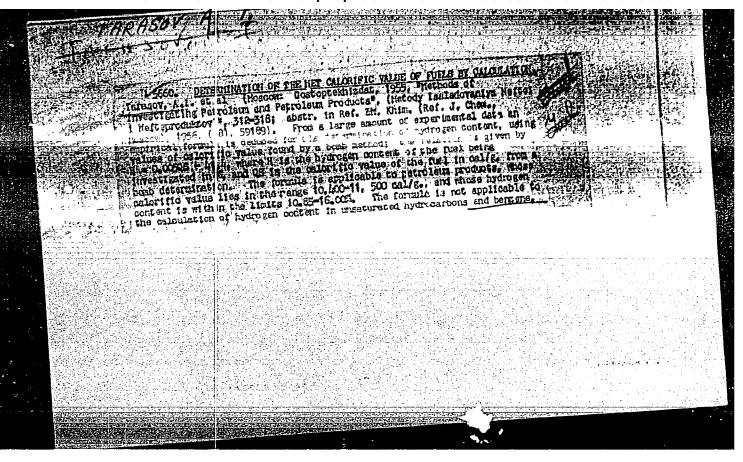
the contact galvanometer regulates the furnace temperature in such a manner as to lower the value of Et by an amount equal to the increase of V_d ; in application this is virtually equivalent to a linear decrease of temperature in the 1100 - 500° range.

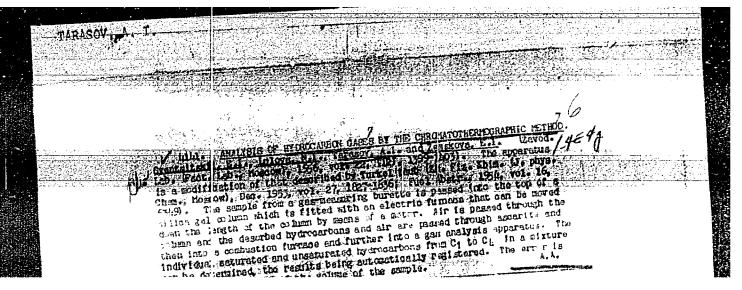
1. Temperature-Control 2. Galvonometers-Applications

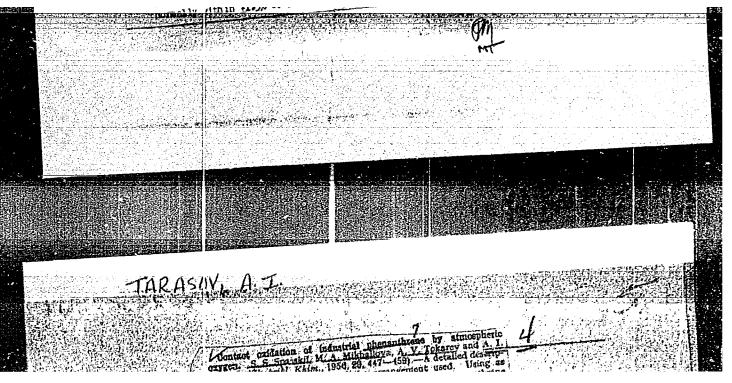
Card 2/2

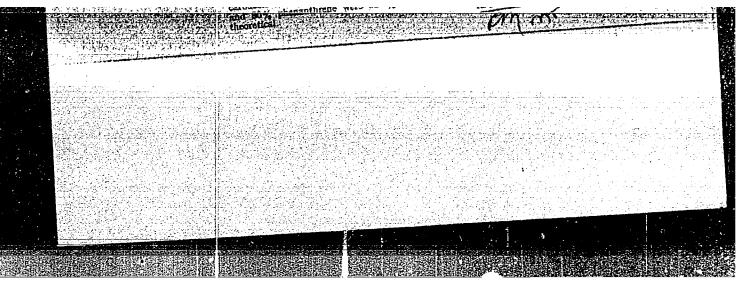
CIA-RDP86-00513R001754920009-4" APPROVED FOR RELEASE: 07/13/2001











TARAS	oy A.Z.		
	V.P. Totasov A.L. and Ugars Tictheds of Examining Petrole Ref. Zh. Rhim. (Ref. J. Chem. tested of lubricants raffinat gasoline and Industrial (2000 artificial mixtures of indivi	SULPARE IN OILS BY THE LAMP METRO. vd. K.V. (Moscow: Cost optekhizdat, im and Petrolous Products, 275-281; at bloscow), 1957, (12), 42244). The met es and deasphaltized residues, using 70 tame as diluent, blockracy was tested dual sulpair compaunds. The lomp met bustion in a bond, and takes 1/3 to 1 to sample is from 3 to 1 to 7 to 1.	955, satr. in loca was ootena
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SUV/81-59-16-58565

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 419 (USSR)

AUTHORS:

Muzychenko, V.P., Rasnyanskaya, A. Ya., Tarasov, A.I.

TITLE:

The Determination of Magnesium in Mazuts

PERIODICAL:

Novosti neft.tekhn. Neftepererabotka, 1958, Nr 9, pp 18-20

ABSTRACT:

A method for the quantitative determination of magnesium in mazuts has been developed. For separating Mg the method of ashing the sample (5 g) in a platinum cup has been chosen; the concentration of Mg in the ashes solution is determined by the colorimetric method with the application of a dyestuff, - titanium yellow. The

error of the method is + 6 relative %.

There are 9 references.

G. Margolina.

Card 1/1

TARASOV, 11 1.

PHASE I BOOK EXPLOITATION

SOV/3938

Akademiya nauk SSSR. Ural'skiy filial. Institut khimii.

Sbornik rabot laboratorii vysokomolekulyarnykh soyedineniy, No. 2 (Collected Papers of the Laboratory of High-Molecular Compounds, No. 2) Sverdlovsk, 1959. 53 p. (Series: Its: Trudy, vyp. 3) Errata slip inserted. 1,000 copies printed.

Eds.: V.G. Plyusnin, Doctor of Chemistry, and V.N. Kozlov, Doctor of Technical Sciences; Tech. Ed.: N.F. Seredkina.

PURPOSE: This collection of three articles is intended for chemists and technicians interested in the chemistry of high-molecular compounds and polymers.

COVERAGE: The first article of this collection discusses the expression of the activity factor in the Alfrey and Price equation by a constant which could be determined independently of equations

Card 1/3

Collected Papers of the Laboratory (Cont.)

SOV/3938

$$r_1 = \frac{Q_1}{Q_2} e^{-e_1(e_1 - e_2)}, \quad r_2 = \frac{Q_2}{Q_1} e^{-e_2(e_2 - e_1)}, \text{ where } r_1 \text{ and}$$

r₂ are the copolymerization constants, Q₁ and Q₂ are the activity factors of the monomers, e₁ and e₂ are the polar factors of the monomers, and e is the base of the natural logarithms. The article explores the possibility of using for this end a value characterizing the dimensions [size] of the electron cloud formed by π -electrons of the reacting double and short bonds conjugated with it. The second article reports on a study made of the copolymerization of polydiethylene glycol fumarate and of poly-1, 3-butylene glycol fumarate with styrol, methylmethacrylate, acrylonitrile and vinyl acetate to explain the peculiarities of the copolymerization reaction of unsaturated polyesters with vinyl monomers. The third article reports on a study of the behavior of nitrile rubbers and polyesters of various structure used as plasticizers. L.M. Gindin, A.D. Abkin, and S.S. Medvedev are mentioned. References accompany each article.

Card 2/3

Collected Papers of the Laboratory (Cont.) SOV/3938	;
TABLE OF CONTENTS:	
Spasskiy, S.S., Individual Qualitative Characteristics of the Activity of Unsaturated Compounds in Copolymer Reactions	5
Spasskiy, S.S., A.V. Tokarev, M.A. Mikhaylova, A.I. Tarasov, T.V. Molchand and M. Ye. Mat'kova. Copolymerization of Polyesters With Vinyl Monomer	ova, rs 21
Spasskiy, S.S., N.A. Obolonskaya, V.I. Yudin, S.B. Ginzburg, and Ye. S. Tagil'tseva. Plasticizers for Polyester Resin-Base Nitrile Rubb	pers 33
Bibliography of Publications of the Institut khimii Ural'skogo filial AN SSSR (Institute of Chemistry of the Ural Branch of the Academy of Sciences USSR) for the Years 1932 to 1956	43
AVAILABLE: Library of Congress	
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SPASSKIY, S.S.; TOKAREV, A.V.; MIKHAYLOVA, M.A.; TARASOV, A.I.; MOLCHANOVA, T. V.;

MAT'KOVA, M. Ye.

Gopolymerization of unsaturated polyesters with vinyl monomers. Trudy

(MIRA 14:3)

(Enters) (Vinyl compounds) (Polymerization)

SOV/32-25-7-12/50 5(2)

Tarascv, A. I., Kudryavtseva, H. A., Ioganson, A. V., Lulova, N. I. AUTHORS:

Automatic Analysis of Flowing Gases by Means of Chromatograph TITLE:

KhPA-1 (Avtomaticheskiy analiz gazov v potoke na

khromatografe KhPA-1)

Zavodskaya laboratoriya, 1959, Vol 25, Nr 7, pp 803-805 (USSR) PERIODICAL:

In collaboration with the Collective V. R. Anders, P. Λ_o ABSTRACT: Frolcvskiy, V. F. Remnev, M. S. Slobodkin and Ye. S. Bulakh

of the SKB of petroleum industry, an automatic chromatograph gas analyzer KhPA-: was designed (Fig 1) for the purpose of controlling the composition of gas flows in technological processes of the petroleum retiring industry and the petroleum chemical industry. The device provides a thermostating of the feeding analyzer (at temperatures above room temperature), and

the application of a detector of the heat conductivity. The

separation columns can be exchanged according to the conditions of the analysis. A new column filling was used, composed of tripclite (from Zikeyev quarry) with an addition of paraffin naphthene cil and soda. A separation of the hydro-

carbons 0,004 cocurs after 16 - 17 minutes and that of the Card 1/3

Automatic Analysis of Flowing Gases by Means of Chromatograph KhPA-1

SOV/32-25-7-12/50

hydrocarbons $C_{\frac{1}{2}}$ - $C_{\frac{1}{5}}$ after about 15 - 50 minutes in columns 4 - 6 m long and 6 mm in diameter, filled with the above mentioned substance, at temperatures between 40 - 200 and a flowing rate of the developing gas (nitrogen) of 2 - 8 1/hour. Ethane-ethylene cannot be separated. Sensitivity coefficients were determined and applied for the computation of the gas composition. The results of the analysis obtained by means of the appliance KhPA=1 were compared to those of the chromatograph Fraktovap (of the firm Carlo Erbe, Italy), (Table 1). The reproducibility of the results achieved in the analysis of industrial gases was also determined (Table2). At present a test appliance KhPA-1 is being installed in the gas fractionating plant of the Novo-Ufimskiy neftepererabatyvayushchiy zavod (Novo-Ufimskiy Petroleum Refinery) for the automatic analysis of butane butane fractions. The production of a test series of automatic industrial chrcmatographs KhPA-1 will be carried out in Moskovskiy zavod KIP (Moscow Works KIP) in 1959. There are 2 figures, 2 tables, and 2 references, 1 of which is Soviet.

Card 2/3

Automatic Analysis of Flowing Gases by Means of Chromatograph KhPA-1

SOV/32-25-7-12/50

ASSOCIATION: Vseseyuznyy institut po pererabotke nefti i gaza i

polucheniyu iskusstvennogo zhidkogo topliva

(All-Union Institute for the Refining of Petroleum and Cas,

and for the Production of Artificial Liquid Fuels)

Card 3/3

5(4) AUTHORS: TITLE:

Spasskiy, S. S., Tarasov, A.I, Tokarev, A.V. 307/76-33-2-2/45 Copolymerization of Unsaturated Polyesters and Vinyl Monomers (Sopolimerizatsiya nenasyshchennykh poliefirov s vinilovymi monomerami). I. Determination of the Number of Double Bonds in Copolymers of Unsaturated Polyesters and Vinyl Monomers (I. Opredeleniye chisla dvoynykh svyazey v sopolimerakh ne-

nasyshchennykh poliefirov i vinilovykh monomerov)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 2,

pp 249 - 254 (USSR)

ABSTRACT:

Although these copolymers represent new thermally reactive synthetic materials the principles involved in their copolymerization have not been sufficiently investigated. The possibilities of applying two methods, based on the additivity of the specific volumes and of the specific refractions, were investigated. The following systems were used in checking the methods: polydiethylene glycol fumarate - acrylonitrile; polydiethylene glycol fumarate (I) - styrene; (I)-methyl methacrylate; (I)-vinyl acetate. Laboratory workers M. A. Mikhaylova, T. V. Holchanova, M. K. Mat'kova participated

in the experiments. The copolymerization was carried out

Card 1/3

Copolymerization of Unsaturated Polyesters and Vinyl 50V/76-33-2-2/45 Monomers. I. Determination of the Number of Double Bonds in Copolymers of Unsaturated Polyesters and Vinyl Monomers

in glass ampuls in the presence of 0.1% by weight berroyl peroxide in a nitrogen atmosphere and at 60+0.50C. The index of refraction was determined using an Abbe refractometer. The magnitude of the specific shrinking of the polyester chain was determined by proceeding upon the assumption (Ref 7) that the shrinkage of the monomers in the polymerization (contraction) is dependent upon their structures. The styrene-methyl methacrylate system was tested using the rule of the additivity of the specific volumes (Table 2). The contraction was determined from the specific volumes of the diethyl fumarate (II) and polydiethyl fumarate (III) using the equation $P = M(\delta_{\mathbf{F}} - \delta_{\mathbf{PF}})$ (P= contraction, M= molecular weight of (II), $\delta_{\rm F}$, $\delta_{\rm PF}$ = specific volumes of (II) and (III)); the value found was 16.7. The specific shrinkage for the chain of (I) was found to be 0.08971. The determination of the increments of the monomer double bond was carried out using the specific refraction (Table 4); a value of 0.0144 was found for (I). The results obtained by both

Card 2/3

SOV/76-33-2-2/45 Copolymerization of Unsaturated Polyesters and Vinyl Monomers. I. Determination of the Number of Double Bonds in Copolymers of Unsaturated Polyesters and Vinyl Monomers

methods described above (Table 5) are in good agreement, and it may be concluded from these determinations that both methods are equally valid in determining the copolymerization constants of unsaturated polyesters and vinyl derivatives. There are 5 tables and 8 references, 5 of which are Soviet.

ASSOCIATION:

Ural'skiy filial Akademii nauk SSSE Sverdlovsk (Ural Branch

of the Academy of Sciences, USSR, Sverdlovsk)

SUBMITTED:

March 6, 1957

Card 3/3

CIA-RDP86-00513R001754920009-4" APPROVED FOR RELEASE: 07/13/2001

5 (4), 15 (8)

Spasskiy, S. S., Mikhaylova, M. A., AUTHORS:

sov/76-33-7-1/40 Tarasov, A. I., Molchanova, T. V.,

Mat'kova, M. Ye.

TITLE:

Copolymerization of Unsaturated Polyesters With Vinyl Monomers. IV. Copolymerization of Polydiethylene Glycol Fumarate With Styrene, Acrylonitrile, Methyl Methacrylate, and Vinyl Acotate

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 7, pp 1449 - 1454

(USSR)

ABSTRACT:

In a previous paper (Ref 1) it was found among other things that acrylonitrile during copolymerization (C) with unsaturated polyesters (PE) shows decreasing activity compared with that in (C) with diesters of fumaric acid. It was assumed that these phenomena are due to steric factors. In order to confirm this assumption, the authors investigated the (C) of polydiethylene glycol fumarate (I) with styrene (II), acrylonitrile (III), methyl methacrylate (IV), and vinyl acetate. The properties of the vinyl monomers are listed (Table 1). The (C) constants (CC) were determined according to the Mayo-Lewis equation (Ref 4). The experimental results obtained are listed (Table 2) from

Card 1/3

Copolymerization of Unsaturated Polyesters With Vinyl SOV/76-33-7-1/40 Monomers. IV. Copolymerization of Polydiethylene Glycol Fumarate With Styrene, Acrylonitrile: Methyl Methacrylate, and Vinyl Acetate

which the (CC) as well as the reaction rate of the chain radicals of the (PE) and of the vinyl monomers were calculated (Table 3). The activity of the vinyl derivatives increases (with respect to the chain radical of the (PE)) from (II) to (V), while during the (C) of vinyl monomers an opposite phenomenon may be observed (Ref 5), i.e. (II) possesses the strongest and (V) the weakest activity. The experimental results obtained confirm the above effect of steric factors. It is assumed that the latter increases with increasing size of the radical at the double bond and with decreasing elasticity of the monomer molecule. The authors plotted diagrams of the integral composition of the systems under investigation (Figs 1 - 4); furthermore, they pointed out among other things that no azeotropic mixtures are formed by the systems (I) + (II) and (I) + (IV). The above diagrams permit determination of the conditions for preparing homogeneous copolymers. There are 4 figures, 3 tables, and 9 references, 7 of which are Soviet.

Card 2/3

Copolymerization of Unsaturated Polyesters With Vinyl SOV/76-33-7-1/40 monomers. IV. Copolymerization of rolyglethylene Glycol Finarate With Styrene, Acrylonitrile, Methyl Methacrylate, and Vinyl Acetate Monomers. IV. Copolymerization of Polydiethylene Glycol

ASSOCIATION: Ural skiy filial Akademii nauk SSSR Sverdlovsk (Ural Branch of the Academy of Sciences of the USSR, Sverdlovsk)

March 17, 1957 SUBMITTED:

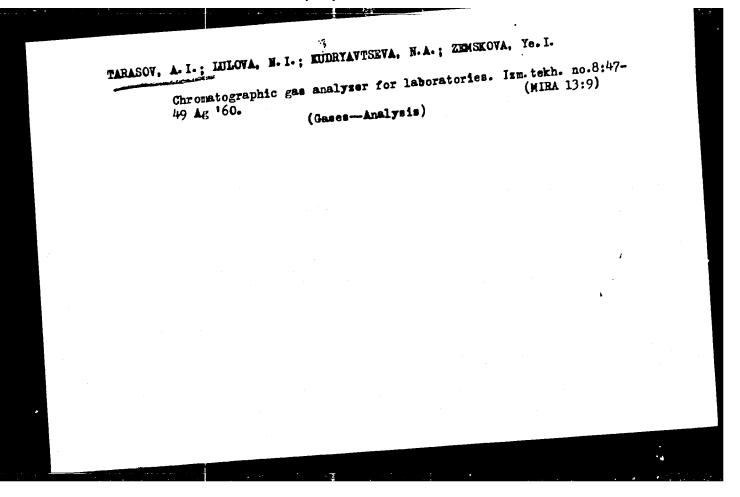
card 3/3

CIA-RDP86-00513R001754920009-4" APPROVED FOR RELEASE: 07/13/2001

TARASOV. Aleksey Issarionovich. Prinimali uchastiye: KUZ'MINA, A.V.;
ZIMINA, K.I.; POLYAKOVA, A.A.; IOGANSHN, A.V.; FROLOVSKIY, P.A.;
LULOVA, N.I.. L'VOVA, L.A., vedushchly red.; MUKHINA, E.A.,
tekhn.red.

[Gases obtained in petroleum refining and methods of their
analysis] Gasy neftepererabotki i metody ikh analiza. Moskva,
Gos.nauchno-tekhn.izd-vo neft. i gorno-teplivnoi lit-ry, 1960.
(MIRA 13:2)

(Petroleum-Refining) (Gases-Analysis)



5/190/60/002/011/001/027 B004/B060 also 2209 11.2210 Tarasov, A. I., Tskhay, V. A., Spasskiy, S. S. AUTHORS: A Study of Equations for the Composition of Ternary C TITLE: Copolymers. I Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 11, PERIODICAL: pp. 1601 - 1607 TEXT: The authors wanted to find simple and practical ways of determining an azeotropic composition of copolymers. For this purpose they analyzed the equations relating to such compositions as possess a single azeotropic point. The following relations are derived for it: $m_1/m_3 = M_1^2/M_3^2$ and $m_2/m_3 = M_2^2/M_3^2$, where m_1 , m_2 , m_3 are the percentual concentrations, and Mi, Mi, the molar concentrations of the components. Taking into account the relative rate constants r₁₂,(r₂₁, r₁₃, r₃₁, r₂₃, and r₃₂, the following system of equations is obtained for the azeotropic point: Card 1/4

A Study of Equations for the Composition of Ternary Copolymers. I

$$\frac{\left(\frac{M_{1}^{'}}{r_{31}r_{21}} + \frac{M_{2}^{'}}{r_{21}r_{22}} + \frac{M_{3}^{'}}{r_{10}r_{21}}\right)\left(M_{1}^{'} + \frac{M_{3}^{'}}{r_{12}} + \frac{M_{3}^{'}}{r_{13}}\right)}{\left(\frac{M_{1}^{'}}{r_{13}r_{21}} + \frac{M_{3}^{'}}{r_{23}r_{12}} + \frac{M_{3}^{'}}{r_{13}r_{33}}\right)\left(M_{3}^{'} + \frac{M_{1}^{'}}{r_{21}} + \frac{M_{3}^{'}}{r_{32}}\right)} = 1$$
(3a)

$$\frac{\left(\frac{M_{1}^{'}}{r_{12}r_{31}} + \frac{M_{2}^{'}}{r_{12}r_{32}} + \frac{M_{3}^{'}}{r_{32}r_{13}}\right)\left(M_{2}^{'} + \frac{M_{1}^{'}}{r_{21}} + \frac{M_{3}^{'}}{r_{32}}\right)}{\left(\frac{M_{1}^{'}}{r_{13}r_{21}} + \frac{M_{3}^{'}}{r_{22}r_{12}} + \frac{M_{11}^{'}}{r_{13}r_{33}}\right)\left(M_{3}^{'} + \frac{M_{1}^{'}}{r_{31}} + \frac{M_{2}^{'}}{r_{32}}\right)} = 1$$

$$M_{1}^{'} + M_{2}^{'} + M_{3}^{'} = 1.$$
(36)

S/190/60/002/011/001/027 B004/B060

One unknown quantity is suppressed by introducing M₁ = M₁¹/M₃¹ and M₂ = M₂¹/M₃².

Moreover, in order to avoid fractions, the reciprocal values of the relative rate constants are introduced:

A₁₂ = 1/r₁₂, A₂₁ = 1/r₂₁, etc., and the system of equations (7) is obtained:

85410

A Study of Equations for the Composition of B004/B060

Ternary Copolymers I

 $F = A_{13}A_{23}l_3^2; l_1 = 1 - A_{13}; l_2 = A_{21} - A_{23}; l_3 = A_{31} - 1; l_1' = A_{12} A_{13}; l_2' = 1 - A_{23}; l_3' = A_{32} - 1$. The authors derived the criteria under which only positive values are obtained for equations (7) It is confirmed that only one single azeotropic point can be present in the ternary system. The following systems with azeotropic composition are tabulated:

following systems with	Copolymerization constants	Azeotropic composition in molar fractions
1	r ₁₂ r ₂₁ r ₁₃ r ₃₁ r ₂₃ r ₃₂	0.529
styrene with vinylidene dichloride	9 0.14 0.07 0.046	0 093 0 378
and dimethyl lumarave	1	0 · 139 0 · 387
methyl methacrylate \ with 2.5-dichloro sty		0.474
and acrylonitrile	0.29 0.41	0.467 0.153
styrene with 2,5 dichloro styrene and acrylonitrile	0.07	0.380

Card 3/4

A Study of Equations for the Composition of S/190/60/002/011/001/027
Ternary Copolymers. I

There are f figure, intable, and 6 references: 2 Soviet and 4 US

ASSOCIATION: Institut khimii Ural'skogo filiala AN SSSR (Institute of Chemistry of the Ural Branch of AS USSR)

SUBMITTED: January 29, 1960

Card 4/4

CIA-RDP86-00513R001754920009-4 "APPROVED FOR RELEASE: 07/13/2001

77396 SOV/79-30-1-57/78 5.3830

Spasskiy, S. S., Tarasov, A. I. AUTHORS:

Copolymerization of Unsaturated Polyesters With Vinyl TITLE:

Monomers. V. Copolymerization of Poly(1,3-Butylene

Glycol Fumarate) With Vinyl Alkyl Ethers

Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 257-263 PERIODICAL:

(USSR)

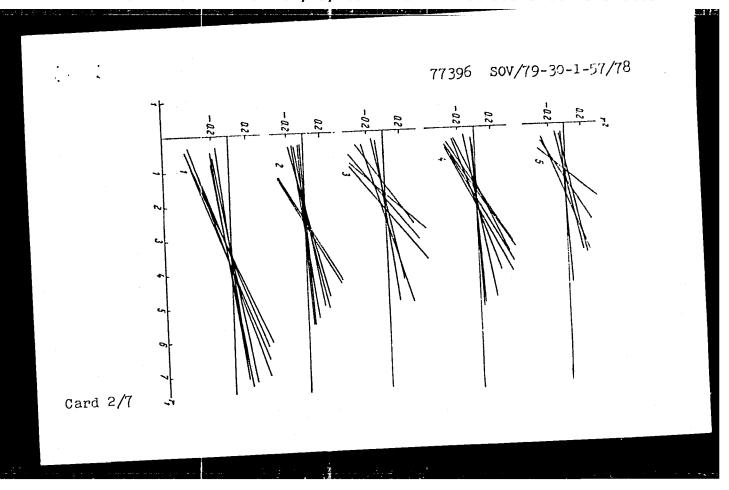
Effect of the structure of vinyl ethers on their ABSTRACT:

activity in the copolymerization with unsaturated polyesters was studied. Copolymerization of poly(1,3butylene glycol fumarate) with vinyl isoamyl, vinyl n-amyl, vinyl isobutyl, vinyl n-butyl, and vinyl n-propyl ethers was conducted according to the proce-

dure described in the previous work (Spasskiy and

others, ZhOKh, 30, 250, 1960). Copolymerization constants (see Fig. 1), data concerning the composition, and mechanical properties of the copolymers obtained are given. The following conclusions are made: about

60% of the double bonds of the polyester remain Card 1/7



APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754920009-4"

Copolymerization of Unsaturated Polyesters With Vinyl Monomers. V. Copolymerization of Poly(1,3-Butylene Glycol Fumarate) With Vinyl Alkyl Ethers

77396 sov/79-30-1-57/78

Fig. 1. Graphical determination of copolymerization constants of poly(1,3-butylene glycol fumarate) and vinyl alkyl ethers. (1) Vinyl isoamyl ether (\mathbf{r}_1 = 3.8 ± 0.7; \mathbf{r}_2 = 0); (2) vinyl n-amyl ether (\mathbf{r}_1 = 2.7 ± 0.7; \mathbf{r}_2 = 0); (3) vinyl isobutyl ether. (\mathbf{r}_1 = 2.0 ± ± 0.7; \mathbf{r}_2 = 0); (4) vinyl n-butyl ether (\mathbf{r}_1 = 1.8 ± 0.5; \mathbf{r}_2 = 0); (5) vinyl n-propyl ether (\mathbf{r}_1 = 1.6 ± 0.5; \mathbf{r}_2 = 0).

Caption for Fig. 1.

unchanged at 15-20% conversion; the activity of the vinyl ethers (in respect to the fumarate unit) does not depend on their structure; uniform (in respect to composition) copolymer is formed when the ratio

Card 3/7

Copolymerization of Unsaturated Polyesters With Vinyl Monomers. V. Copolymerization of Poly(1,3-Butylene Glycol Fumarate) With Vinyl Alkyl Ethers 77396 SOV/79-30-1-57/78

polymer: vinyl ether is not less than 9:1; the thermomechanical investigations of the copolymers obtained show that the quoted copolymerization constants are correct (see Figs. 4, 5, and 6). There are 4 tables; 6 figures; and 16 references, 5 U.S., 11 Soviet. The U.S. references are: F. M. Lewis, C. Walling, W. Cummings, E. R. Briggs, F. R. Majo, J. Am. Chem. Soc., 70, 1519 (1948); F. M. Lewis, C. Walling, W. Cummings, E. R. Briggs, W. J. Wenisch, J. Am. Chem. Soc., 70, 1527 (1948); F. M. Lewis, F. R. Majo, J. Am. Chem. Soc., 70, 1533 (1948); F. R. Majo, C. Walling, F. M. Lewis, J. Am. Chem. Soc., 70, 1523 (1948); E. C. Chapin, E. G. Hain, C. K. Mills, J. Polymer Sci., 4, 597 (1949).

ASSOCIATION:

Ural Branch of the Institute of Chemistry, Academy of Sciences, USSR (Uralskiy filial AN SSSR, Institut khimil)

SUBMITTED:

July 30, 1958

Card 4/7

Copolymerization of Unsaturated Polyesters With Vinyl Monomers. V. Copolymerization of Poly(1,3-Butylene Glycol Fumarate) With Vinyl Alkyl Ethers

77396 SOV/79-30-1-57/78

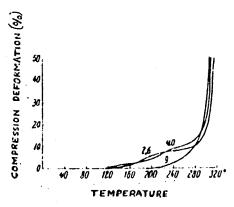


Fig. 4. Thermomechanical curves of copolymers of poly-(1,3-butylene glycol fumarate) and vinyl n-butyl ether. The figures on the curves are the moles of polymers for 1 mole of vinyl ether.

Card 5/7

Copolymerization of Unsaturated Polyesters With Vinyl Monomers. V. Copolymerization of Poly(1,3-Butylene Glycol Fumarate) With Vinyl Alkyl Ethers

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77396 SOV/79-30-1-57/78

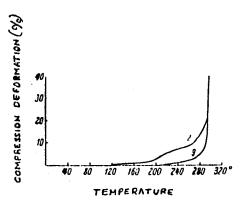
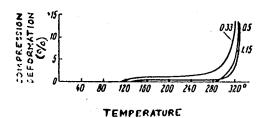


Fig. 5. Thermomechanical curves of copolymers of poly-(1,3-butylene glycol fumarate) and vinyl isoamyl ether.

Card 6/7

Copolymerization of Unsaturated Polyesters With Vinyl Monomers. V. Copolymerization of Poly(1,3-Butylene Glycol Fumarate) With Vinyl Alkyl Ethers

77396 SOV/79-30-1-57/78



Card 7/7

Fig. 6. Thermomechanical curves of copolymers of poly(1,3-butylene glycol fumarate) and styrene.

5.3300

77653 sov/80-33-2-28/52

AUTHORS:

Gavrilov, B. G., Gulin, Ye. I., Lesnikov, A. P., Tarasov,

A. K.

TITLE:

Preignition Conversion of Methane Hydrocarbons in

Internal Combustion Engines

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PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 2, pp

421-424 (USSR)

ABSTRACT:

The preignition conversion of paraffins (n-hexane,

n-heptane, n-octane, 2,3-dimethylpentane, 2,2,3-trimethylbutane, and 2,2,4-trimethylpentane) were investigated in a one-cylinder Waukesha engine with

adjustable compression ratio. The engine was heated up

by running normally on B-70 gasoline; the ignition

and the gasoline supply was then cut off and the flywheel turned by an electric motor until a predetermined upper temperature was reached. The supply of the investigated hydrocarbon was then turned on, the gaseous mixture of the hydrocarbons with air was aspired into the cylinder,

Card 1/3

Preignition Conversion of Methane Hydrocarbons in Internal Combustion Engines 77653 **sov**/80-33-2-28/52

compressed without ignition, and expelled into a large, water- or dry ice-cooled flask. The tests were made at 1,000 rpm, 110° temperature of the gaseous mixture, and only a 4.33 compression ratio to avoid the selfdetonation of the mixture. The analysis of the compression products showed that the chief process occurring in from 150 to 300° C and 250 to 400° C was the thermal decomposition of the molecules and the formation of unsaturated hydrocarbons. Branched hydrocarbons showed nigher stability of the molecular structure than in rormal hydrocarbons. The rate of molecule decomposition was in direct ratio to the amount of the hydroperoxides formed and the total oxidizability of the hydrocarbons. The insignificant amount of the hydrocarbon conversion (about 1%) during the 0.015 sec time of the compression cycle determines, nevertheless, the direction and character of the fuel combustion in the in the engine. There are 2 tables; and 8 references,

Card 2/3

Preignition Conversion of Methane Hydrocarbons in Internal Combustion Engines

77653 **SOV**/80-33-2-28/52

2 U.S., 1 U.K., 5 Soviet. The U.S. and U.K. references are: A. Fallah, R. Long, F. Garner, Fuel, 1, 4 (1952); A. Pahnke, P. Cohen, B. Sturgis, Ind. Eng. Chem, 46, 5, 1024 (1954); G. Lappin, Anal. Chem., 23, 541

ASSOCIATION:

A. A. Zhdanov Leningrad State University (Leningradskiy gosudarstvennyy universitet imeni A. A. Zhdanova)

SUBMITTED:

July 8, 1959

Card 3/3

TARALOV, A.I.; TSKHAY, V.A.; SPASSKIY, S.S.

Composition equations for time-component concliners. Part 2. Vysokom. soed. 3 no.1:14-20 Ja '51. (MT A 14:2)

1. Institut khimii Ural'skejo filiala AM SOS... (Polymers)

FRCICVSKIY, P.A.; Prinimali uchastiye: ANDERS, V.R.; REMNEV, V.F.;

BULAMH, Ye.S.; KHURSHUDIANTS, I.K.; YATSENKO, P.G.; TARASCV, A.I.;

IOGANSCN, A.V.; LULCVA, N.I.; KURDRYAVTSEVA, N.A.

Kh.L-3 laboratory chromatograph. Khim. i tekh.topl.i masel

6 no.7:44-49 Jl '61.

1. Spetsial'noye konstruktorskoye byuro po avtomatike v neftepererabotke i neftekhimii.

(Gas chromatography)

s/065/61/000/008/009/009 E194/E135

5.5600

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Lulova, N.I., Piguzova, L.I., Tarasov, A.I., and

Fedosova, A.K.

Checking the quality of synthetic samples of molecular sieve type adsorbents by gas chromatography AUTHORS: TITLE:

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1961, No. 8, pp. 59-63 The VNII NP (All-Union Scientific Research Institute of the Petroleum Industry) is developing molecular sieve adsorbants and in this connection it was necessary to develop a method for assessing the quality of samples of molecular sieves. The method is based on the possibility of chromatic separation on molecular sieves of such components as oxygen and nitrogen, which are not separated by other adsorbents. The instrument used was a standard chromatograph type XM-3 (KhL-3) which was described in an article by P.A. Frolovskiy (Ref. 4; Khimiya i tekhnologiya topliv i masel, No.7, 1961, pp. 44-49). Samples of molecular Bieve were charged into the chromatograph column; which was 1 m long, 6 mm in diameter, with a thermostat temperature of 40-45 °C. Card 1/3

26524

S/065/61/000/008/009/009

Checking the quality of synthetic ...

E194/E135

Hydrogen was passed at a rate of 120 mf per minute and argon at 40 mf per minute. The weight of zeolite in the column was 21 g. The tests were made with a standard four component gas mixture:

0xygen 2.0 - 4.0 % volume 7.5 - 15.0 % volume Methane 60.0 - 65.0 % volume Carbon monoxide 21.0 - 25.0 % volume

Linde molecular sieves grade 5 (5A) gave clear separation of all Linde molecular sieves grade 5 (5A) gave clear separation of all components of this mixture under the stated conditions in three minutes. Each newly synthesized specimen of zeolite was tested minutes. Each newly synthesized specimen of zeolite under analogous conditions to obtain identical chromatograms in analysing this gas mixture. This method of checking molecular sieves is simple and quick. A considerable number of zeolite sieves is simple and quick. A considerable number of zeolite samples were tested in various stages of synthesis and those which gave good results in gas adsorption chromatography were also good in other analyses such as X-ray analysis and determination of water content. In order to compare the degree of activity of water content. In order to compare the degree of activity of water content samples certain chromatographic parameters were worked different samples certain chromatographic parameters were worked out, namely, the retention volume, the Henry coefficient and the separation factor, all of which are very suitable for general card 2/3

26524

Checking the quality of synthetic ... S/065/61/000/008/009/009 E194/E135

characterisation of adsorbents. The gas chromatography method was also used to check qualitative changes in adsorbents during the process of heat treatment. Acactivation by heat treatment was carried out at various temperatures: results were good at decreased the activity of the molecular sieve. There are 3 figures, 2 tables and 8 references: 4 Soviet and 4 English. The English language references read: Ref.1: Petroleum Refiner, Vol.38, No.37, 136-140, 1957. Ref.3: S.A. Green, M.L. Moberg, E.M. Wilson. Anal. Chem. No.9, 1369-1370.

Ref. 5: R.M. Barrer. prenst Chem. B.C. Vol. 35, 21/22. Ref. 2: R. Miltor. Adsorbents of the Molecular-sieve Type, American Patent No. 2882244, 14.4.59.

ASSOCIATION: VNII NP

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Card 3/3

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•	PHASE I BOOK EXPLOITATION SOV/6246		
•	Soveshchaniye po tseolitam. 1st, Leningrad, 1961.	•	
	Sinteticheskiye tseolity; polucheniye, issledovaniye i primeneniye (Synthetic Zeolites: Production, Investigation, and Use). Mos- cow, Izd-vo AN SSSR, 1962. 286 p. (Series: Its: Doklady) Errata slip inserted. 2500 copies printed.	•	
•	Sponsoring Agency: Akademiya nauk SSSR. Otdeleniye khimicheskikh nauk. Komisiya po tseolitam.	•	
	Resp. Eds.: M. M. Dubinin, Academician and V. V. Serpinskiy, Doctor		
	of Chemical-Sciences; Ed.: Ye. G. Zhukovskaya; Tech. Ed.: S. P. Golub'.	•	
•	of Chemical-Sciences; Ed.: Ye. G. Zhukovskaya; Tech. Ed.: S. P.		
	of Chemical-Sciences; Ed.: Ye. G. Zhukovskaya; Tech. Ed.: S. P. Golub'. PURPOSE: This book is intended for scientists and engineers engaged in the production of synthetic reclites (molecular sieves), and	•	
	of Chemical-Sciences; Ed.: Ye. G. Zhukovskaya; Tech. Ed.: S. P. Golub'. PURPOSE: This book is intended for scientists and engineers engaged in the production of synthetic reclites (molecular sieves), and		**************************************
	of Chemical-Sciences; Ed.: Ye. G. Zhukovskaya; Tech. Ed.: S. P. Golub'. PURPOSE: This book is intended for scientists and engineers engaged in the production of synthetic zeolites (molecular sieves), and for chemists in general.		***************************************
	of Chemical-Sciences; Ed.: Ye. G. Zhukovskaya; Tech. Ed.: S. P. Golub'. PURPOSE: This book is intended for scientists and engineers engaged in the production of synthetic zeolites (molecular sieves), and for chemists in general.	Color to the state of the state	**************************************
	of Chemical-Sciences; Ed.: Ye. G. Zhukovskaya; Tech. Ed.: S. P. Golub'. PURPOSE: This book is intended for scientists and engineers engaged in the production of synthetic zeolites (molecular sieves), and for chemists in general.	The state of the s	**************************************

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	Synthetic Zeolites: (Cont.)	307/ 6246	
	COVERAGE: The book is a collection of reports presented at Conference on Zeolites, held in Leningrad 16 through 19 at the Leningrad Technological Institute imeni Lensovet, purportedly the first monograph on this subject. The regrouped into 3 subject areas: 1) theoretical problems tion on various types of zeolites and methods for their gation, 2) the production of zeolites, and 3) applicationalities. No personalities are mentioned. References for dividual articles.	March 1961 and is ports are of adsorp- investi-	*
į	TABLE OF CONTENTS:		
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and the			

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Symthatic Zeolites: (Cont.)	
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Shirinskaya, L. P., and N. F. Yermolenko. Applicability of the General Laws of Ion Exchange to Exchange on Synthetic	41
Neymark, I. Ye., A. I. Rastrenenko, V. P. Pedorovskaya, and A. S. Plachinda. Variation of Adsorption Properties of Zeolites as a Function of the Degree of Sodium-Ion Sub- stitution by Other Cations	4 6
Neymark, I. Ye., M. A. Piontkovskaya, A. Ye. Lukash, and R. S. Tyutyunnik. Variation of the Selective Capacity	49
Lulova, N. I., L. I. Piguzova, A. I. Tarasov, and A. K. Fedosova. Investigation of Synthetic Zeolites With the Aid of Gas Chrosatography	59
Card Sta-3/2	

S/204/62/002/006/007/012 E075/E192

AUTHORS:

Lulova, N.I., Tarasov, A.I., Kuzimina, A.V., and

Koroleva, N.M.

TITLE:

Chromatographic analysis of gameous streams on the

ethylene plant

PERIODICAL: Neftekhimiya, v.2, no.6, 1962, 835-891

TEXT: Analyses of liquified gases and methane and ethylene determination in the light hydrocarbon distillate, and determination of C₂ hydrocarbons and propane in propane-propylene fractions were carried out using the reverse flow method in a modified chromatograph X | A-2 (KhPA-2). For the liquified gas chromatograph X | A-2 (KhPA-2). For the liquified gas (C₃ - 40 to 60%; C₄ - 20 to 40%; C₅ - 10%), best results were obtained on silica gel MCM (MSM) treated with 1.5 wt.% soda and obtained on silica gel MCM (MSM) treated with 20 wt.% propylene 13% glycerine, or on Inza brick treated with 20 wt.% propylene glycol. For the light condensate silica gel ACK (ASK) treated with 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 2% glycerol was found to be the most satisfacwith 0.5% soda and 0.5

5/204/62/002/006/007/012 Chromatographic analysis of gaseoun.. L075/B192

silica-alumina, for the determination of propane modified silica gel ASK or activated alumina, for the determination of C2 hydrocarbons activated alumina or silica-alumina. The time of analysis in all cases did not exceed 4 - 5 min. There are 5 figures and 4 tables.

ASSOCIATION: Vsesoyuznyy nauchno-isaledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu. iskusstvennogo

zhidkogo topliva

THE RESERVE OF THE PROPERTY OF

(All-Union Scientific Research Institute for the Distillation of Petroleum and Gas and the Production

of Synthetic Liquid Fuel)

SUBMITTED: May 22, 1962

Card 2/2

LULOVA, N.I.; PIGUZOVA, L.I.; TARASOV, A.I.; FEDOSOVA, A.K.

Gas chromatography used for investigating adsorbents of molecular sieve type. Khim.i tekh.topl.i masel 7 no.5:70-73
My 162. (MIRA 15:11)

(Adsorbents) (Gas chromatography)

LULOVA, N.I.; TARASOV, A.I.; FEDOSOVA, A.K.; LEONT'YEVA, S.A.

Use of gas chromatography for investigating gases and light
gasolines. Khim.i tekh.topl.i masel 7 no.9:14-19 S '62.

(MIRA 15:8)

l. Vsescyuznyy nauchno-issledovatel skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

(Hydrocarbons) (Gas chromatography)

accessioi	1/Pr-1/Pi-1 :HM/WW N NR: A1:3004770	8/0191/63/000/008/0020/0022
Author:	Tarasov, A. I.; Spasskiy,	8. S.
TITLE: (Copolymens of poly(1,3-but	ylene fumarate) with methyl methacrylate and
	Plasticheskiye massy*, no	o. 8, 1963, 20-22
vinyl ethelectric	her, copolymer, benzoyl pe strength, copolymer diele	merate phthalate), methyl methacrylate, butyl eroxide, thermomechanical curve, copolymer ectric strength, copolymer resistivity, copolymer Vicat softening point
rylate,	and but/1 vinyl ether has	outylene fumarate phthalate) (I), methyl methac we been synthesized for the first time and chanical, and electrical properties studied. butanediol, maleic anhydride, and phthalic

L 11262-63 AF3004770 ACCESSION NR: in all solvents. The physicomechanical and electrical properties of copolymer No. 3, for example, which contains 7% bityl vinyl ether [methyl methacrylate content unspecified], are as follows: density, 1.230 g/cm; Vicat softening point, 180C; impact strength, 14-25 kg-cm/cm2; bending strength, 460 kg/cm2; hardness, 4.0 kg/mm2; electric strength, 46.6 kv/mm; dielectric constant, 5.0-8.5; loss tangent at 50 cps, 0.07; volume resistivity, 0.34 \times 10¹⁵ ohm cm; and surface resistivity, 0.72 \times 10¹⁴ ohm. Analysis of the thermomechanical curves revealed the effect component ratio has on copolymer mechanical properties. Plasticity is determined by methyl methacrylate, which tends to form linear poly(methyl methacrylate) chains that graft onto I. Butyl vinyl ether has two effects: it crosslinks polyester I chains with short linkages, and it terminates poly(methyl methacrylate) chain growth. Both effects of the ether tend to increase copolymer strength and stiffness. Orig. art. has: 2 figures and 2 tables. ASSOCIATION: none ENCL: DATE ACQ: SUBMITTED: OTHER: NO REF SOV:

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754920009-4"

SUB CODE:

LULOVA, N.I.; TARASOV, A.I.; KUDRYAVTSEVA, N.A.; ZEMSKOVA, Ye.I.

Chromatographic method of analysis of gases of petroleum refining. Trudy Kom.anal.khim. 13:238-246 63. (MIRA 16.5)

1. Vsesoyuznyy nauchno-issledovateliskiy institut po pererabotke nefti i gazi i polucheniyu zhidkogo topliva.

(Petroleum refining) (Gas chromatography)

KUDRYAVTSEVA, N.A.; TARASOV, A.I.; SHCHIPANOVA, A.I.

Quantity of liquid petrolatum during modification with tripoli from the Zikeev Mine for chromatographic separation of hydrocarbons. Khim. i tekh. topl. i masel 8 no.10:59-62 (MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovatel skiy institut po pereratotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

LULOVA, N.I.; TARASOV, A.I.; FEDOSOVA, A.K.; LEONT'YEVA, S.A.; KVASOVA, V.A.

Analysis of the wide fractions of straight-run gasoline by gasliquid chromatography. Khim. i tekh. topl. i masel 8 no.12: 21-28 D '63.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

KUDRYAVTSEVA, N.A.; TARASOV, A.I.; Prinimali uchastiye: SHCHIPANOVA, A.I.; RYASOVA, Ye.S.; CHESNOKOVA, R.I.

Chromatographic investigation of gaseous hydrocarbons dissolved in of. Khim i tekh. topl. i masel 9 no.5:32-36 5 My 64 (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva (for Kudryavtseva, Tarasev).

Pc-4/Pr-4/Ps-4/Pt-10 EWT(m)/EPA(s)-2/EPF(c)/T/EWP(j)/EPR/EWA(c) L 27786-65 S/0191/65/000/002/0013/0015 WW/RM ACCESSION NR: AP5004308 AUTHOR: Spasskiy, S. S.; Kodolov, V. I.; Kopylov, A. I.; Obolonskaya, N. A.; Tarasov, A. I. TITLE: The synthesis of polyethyleneglycol-fumarate-phenylphosphinate copolymerization with vinyl monomers SOURCE: Plasticheskiye massy, no. 2, 1965, 13-15 TOPIC TAGS: polyethyleneglycol synthesis, polyfumarate synthesis, polyphenylphosphinate synthesis, vinyl copolymer, phosphorylated polymer, styrene copolymer, methyl methacrylate copolymer, unsaturated polyester ABSTRACT: Phosphorus-containing, unsaturated, hetero-chain polymers were prepared and copolymerized with styrene, or with a mixture of styrene and methyl methacrylate to obtain stable, solid and non-combustible resins. V Diethylphenylphosphinate was prepared by Gefter's method (Fosforoorganicheskiye monomery i polymery, Izd. AN SSSR, 1960) and colyethyleneglycol fumarate was obtained by melt condensation of maleic anhydride with ethyleneglycol (1:3) for 2 hrs. at 120C and subsequently at 180C to an acid number of 1-3 mg KOH/g, removing excess glycol under 10 mm Hg pres-Card 1/2

L 27786-65

ACCESSION NR: AP5004308

sure. The product contained 9-10% hydroxyl groups and was reesterified with an equivalent amount of diethylphenylphosphinate under nitrogen, 6 hrs. at 160C and 18-25 hrs. at 180C. Removal of low-molecular compounds at 180C and 5 mm Hg gave unsaturated polyesters of 80-85 acid number, megligible hydroxyl content, 400-500 molecular weight, and 7% phosphorus content. The ester was polymerized in metal forms with styrene and 0.2-0.5% bis-tert.-butyl peroxide or 0.2% benzoyl peroxide for 8-10 hrs. at 80C and 12 hrs. at 100C, or with a mixture of styrene-methyl methacrylate and 0.2% benzoyl peroxide for 15-20 hrs. at 100C. Analysis of the products of reesterification indicated that polymerization does not occur during this process and that only one ethoxy group of the phenylphosphinate is replaced by low molecular polyfumarate. Formulas for the mixture of polyesters are proposed. Copolymers of 80 and 70% polyester, 10 and 15% styrene, and 10 and 15% methyl methacrylate had densities of 1.28 and 1.3 g/cc, they adsorbed 0.37 and 0.25% water, had impact strengths of 20-25 and 15 kg.cm/cm2 and a weight loss of 6 and 10% at 200C in 24 hrs., and were self-extinguishing with a weight loss of 5 and 9%, respectively. Elongation under load increased rapidly at 250-300C. Orig. art. has: 4 tables, 1 figure, and 5 formulas.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00 SUB CODE: OC

NO REF SOV:

2/2

OTHER: :000

ACCESSION NR: AP500	EWP(J)/T Pc-4 RM S/0286/65/000/005/0070/0070
AUTHORS: Tarasov, A.	I.; Bulatov, M. A.
TITLE: A method for	producing thermosetting polymers. Class 39, No. 168876
SOURCE: Byulleten'	Izobreteniy i tovarnykh znakov, no. 5, 1965, 70
TOPIC TAGS: thermose	etting material, polymer, copolymerization
the maleic type in the presence of a per- nolymers thus obtain	rization of unsaturated polyesters (having a double bond such as he principal chain) and with another unsaturated polyester in roxide initiator. The physico-mechanical properties of the ed are improved by using, as the other polyester, an unsaturated puble bond, such as the allyl type in the side chain.
ASSOCIATION: none	
경우 전보 있게 상황 보이는 사람들이 뭐 했다.	ENCL: OO SUB CODE: MT, OC
SUBMITTED: 13Jul62	
	OTHER : OOC

LULOVA, N.I.; TARASOV, A.I.; KUZTRINA, A.V.; KOROLEVA, R.M.

Chromatographic analysis of gas flows on a unit for obtaining ethylene. Heftekhimiia 2 no.6:855-891 N-D '62. (1334 17:10)

1. Vsesoyuznyy nauchno-isslodovatel skiy institut po pere.abotke nefti i gaza polucheniyu iskusstvennogo zhidkogo topliva.

SPASSKIY, S.S.; KODOLOV, V.I.; KOPYLOV, A.I., OBOLONSKAYA, N.A.; TARASOV, A.I.

Synthesis of polyethyleneglycolfumarate phenylphosphinate and its copolymerization with vinyl monomers. Plast. massy no.2:13-15 '65. (MIRA 18:7)

ACCESSION NR: AP50 17835		UR/0286/65/000/011/0076/0076 678.674.002.2	
		. s. 25	
AUTHOR: Tarasov, A I.;	Kodolov, V. I.; Spasskiy, S	. <u>s</u> .	
TITIE: A method for prod Class 39, No. 171550	ucing unsaturated p <u>hosphoru</u>	s-containing polyesters.	
SOURCE: Byulleten' izobr	eteniy i tovarnykh znakov,	no. 11, 1965, 76	-114.
	yester plastic, unsaturated	영화를 잃었다면 하는 그 없다는 그 없다.	
		Compound	
· \$P\$: ■ 10 pp. (1) \$P\$			
ABSTRACT: This Author's	Certificate introduces a me	thod for producing unsaturated	
phosphorus-containing pol	yesters by polycondensation	of diochloroanhydrides of	
phosphorus-containing pol phosphonic acids with hyd nitrogen. A wider select	yesters by polycondensation roxyl-containing compounds ion of polymers of this typ	of diochloroanhydrides of during heating in a stream of e is provided, and their poly-	
phosphorus-containing pol phosphonic acids with hyd nitrogen. A wider select merization activity is im	yesters by polycondensation roxyl-containing compounds ion of polymers of this typ proved by using polyunsatur	of diochloroanhydrides of during heating in a stream of e is provided, and their poly- ated oligomers, e.g. polyallyl	
phosphorus-containing pol phosphonic acids with hyd nitrogen. A wider select merization activity is im glycerin phthalate, as th	yesters by polycondensation roxyl-containing compounds ion of polymers of this typ	of diochloroanhydrides of during heating in a stream of e is provided, and their poly- ated oligomers, e.g. polyallyl	
phosphorus-containing pol phosphonic acids with hyd nitrogen. A wider select merization activity is im	yesters by polycondensation roxyl-containing compounds ion of polymers of this typ proved by using polyunsatur	of diochloroanhydrides of during heating in a stream of e is provided, and their poly- ated oligomers, e.g. polyallyl	
phosphorus-containing pol phosphonic acids with hyd nitrogen. A wider select merization activity is im glycerin phthalate, as th	yesters by polycondensation roxyl-containing compounds ion of polymers of this typ proved by using polyunsatur	of diochloroanhydrides of during heating in a stream of e is provided, and their poly- ated oligomers, e.g. polyallyl	
phosphorus-containing pol phosphonic acids with hyd nitrogen. A wider select merization activity is im glycerin phthalate, as th ASSOCIATION: none	yesters by polycondensation roxyl-containing compounds ion of polymers of this typ proved by using polyunsature hydroxyl-containing compo	of diochloroanhydrides of during heating in a stream of e is provided, and their poly- ated oligomers, e.g. polyallyl und.	

53614-65 — EWT(m)/IWP(t)/EWP(b) — CCESSION NR: AP501169h	543.21,655.521.5
UTHOES: Sosmina, N. P.; Tarasov, A	.I.; Muzyohenko, V. P.
TTLE: Determination of zinc and leadives	d in additives and in oils containing addi
SOURCE: Khimiya i tekhnologiya topli	v 1 masel, no. 5, 1965, 58-60
TOPIC TAGS: zinc, lead, adsorption,	anionite, lubricant, lubricant additive, oil,
ABSTRACT: A method for rapid determ additives and oils containing them w the ion-exchange chromatographic sep exchanging polymer, with subsequent	ination of Zn and Pb contents in different as developed by the VNII NP. It is cased on aration of elements on the EDE-10P anion- titration in the presence of xylenol orange.
The study of Zn and 10 sorption of a hydrochloric acid concentrations rev treated with 3N solution of the sold	realed that they were adsorbed by the anicalts. In the 0.5 solution the EDE-10P adsorbed in ner Pb were adsorbed in the 0.03N solution. Ly by the anionite in the 3N acid solution were

n X	tals were titrated	with 0.5N hydrochloric acid (isoparately with the 0.02N soluthe dark red color changed to	lemon-yellow. These mate	ospho-
a	is and sulfur. Dev nd those of ASTM we n and Pb when both	in the address in the analytical re within the limits of allowal were present in the substances 5 to 6 hours. The method is rand plant laboratories. Orig.	data obtained by this met ole error. The determinat containing barium, phosph accumented for scientific	ion of
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	SSOCIATION: VNII 1 UEMITTED: 00 O REF SOV: 008	计多数差别 化多糖等的 数别 计自由 经自由 医毒性 医多生的 电电路线 经收益 化二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	SUB CODE: FP, C	, C
	UBMITTED: 00	excle 60	SUB CODE: FP, C	,c

KUDRIAVISEVA, N.A.; TARASOV, A.I., LULOVA, N.Y., SHCHLMANOVA, A.I.

Selecting the optimum conditions of enrosabographic asparation for fillers made from object deposit trapeli. Norm, 1 tokh, topl, 1 masel 10 no.10:55-58 0 765. (MISA 18:13)

1. Vsesoyuznyy naurhnowiasiedovaheliskiy institut po bereratotke nedti i gazov i poludheniyu iskubobyennige shidkogo bopliwa.

ACC NR: AP6000957	SOURCE CODE: UR/0286/65/000/022	/0041/0042
AUTHORS: Novikova, T. V.;	44,55 Tarasov, A. I.; Levitskaya, 0. M.; Palishkina	R. D.
ORG: none	16, 44,55 B	31
TITLE: A method for Lucainin	ng varnish coatings. Class 22, No. 176345	B
SOURCE: Byulleten' izobreter	niy i tovarnykh znakov, no. 22, 1965, 41-42	
	acid, polyester, styrol, glycerin	
ABSTRACT: This Author Certif based on polyester maleinate to increase its durability.	ficate presents a method for obtaining varnish c resin and styrol. To prevent stickiness of the and to shorten the hardening time of the varnish	coating,
ABSTRACT: This Author Certif based on polyester maleinate to increase its durability, a polyester of saturated two-baglycerin phthalate, are added	ficate presents a method for obtaining varnish c resin and styrol. To prevent stickiness of the and to shorten the hardening time of the varnish	coating,
ABSTRACT: This Author Certif based on polyester maleinate to increase its durability, a polyester of saturated two-baglycerin phthalate, are added	ficate presents a method for obtaining varnish c resin and styrol. To prevent stickiness of the and to shorten the hardening time of the varnish ase acid and allyl ester of glycerin, such as po i to the above ingredients.	coating,
ABSTRACT: This Author Certif based on polyester maleinate to increase its durability, a polyester of saturated two-baglycerin phthalate, are added	ficate presents a method for obtaining varnish c resin and styrol. To prevent stickiness of the and to shorten the hardening time of the varnish ase acid and allyl ester of glycerin, such as po i to the above ingredients.	coating,
ABSTRACT: This Author Certif based on polyester maleinate to increase its durability, a polyester of saturated two-baglycerin phthalate, are added	ficate presents a method for obtaining varnish c resin and styrol. To prevent stickiness of the and to shorten the hardening time of the varnish ase acid and allyl ester of glycerin, such as po i to the above ingredients.	coating,

SHIKHOV, V.N.; ANISIMOV, V.A.; Prinimali uchastiye: MAKURIN, F.I.;
NIKULINA, L.P.; TKACHEV, V.V.; NEMTSEV, I.I.; MIKHEYEVA, G.P.;
GUSEV, V.P.; TARASOV, A.I.

Measures for the control of static electricity in rubber cement coaters. Kauch. i rez. 24 no.11:42-45 '65. (MIRA 19:1)

1. Ural'skiy politekhnicheskiy institut, Sverdlovsk, i Sverdlovskiy zavod rezinovykh tekhnicheskikh izdeliy.

EWT(d)/EWT(m)/EWP(w)/EWP(v)/T/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(1)SOURCE CODE: UR/0273/65/000/012/0007/0007 ACC NR: AR6016325 JD/WW/DJ (A)

AUTHOR: Tarasov, A. I.

TITLE: Wear of the antifriction layer on bushings as a function of the dynamic imbalance of crankshafts.

SOURCE: Ref. zh. Dvigateli vnutrennego sgoraniya, Abs. 12.39.50

REF SOURCE: Tr. Novosib. s.-kh. in-ta, v. 25, no. 5, 1964, 41-46

TOPIC TAGS: antifriction material, bushing, wear resistance, engine crankshaft

ABSTRACT: Specimens were tested for wear by the "shaft-partial bushing" method with a moving journal on a remodelled MUI-6000 machine! Wear was determined by the hole method. The tests were done at 9000 using AK-10 lubricant at a rate of 4.5 cm³/min. The results showed that the rate of wear increases from 3.2 to 4-6 µ/hr with an increase in the nonequillibrium forces from 10 to 20% of the fundamental load. The constant component of pressure on the bearing has a considerable effect on wear: the effect of nonequillibrium forces increases with the magnitude of this component. [Translation of abstract]

SUB CODE: 13

1/1 ds Card

621.432-233.21,620.178,16

TARASOV, A.I., inzh.

Grounding systems in 500 kv. substations. Elek. sta. 36 no.2:
68-70 F '65.

(MIRA 18:4)

GAVRILOV, B.G.: GULIN, Ye.I.: LESNIKOV, A.P.: TARASOV, A.K.

Preignition conversions of hydrocarbons of the methans series in an internal combustion engine. Zhur.prikl.khim. 33 no.2: 421-424 F '60. (MIRA 13:5)

1. Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova.

(Hydrocarbons) (Gas and oil engines)

TARASOV, A. F.

29200. Primenenie stali 16khgt dhva shesteren zadroso costa i korobok revedsch mashiny GAZ-51. Avtomob prom-st, 1959. No. 9, S. 15-17

SO: Letopis' Zhurnal'rykh Statey, Vol. 39, Moskva, 1959

TARASOV, A.M.; SVESHNIKOV, D. A.; KEMSEV, P. G. Engrs.

CERCAMENT CONTROL OF THE CONTROL OF

The Arrangement for testing of metal shot for smashing and the evaluation of metal shot quality

Vest Mash p. 74, Oct 51

TARASOV, A. M., SVESHNIKOV, D. A., KEMAYEV, F. G.

Shot peening

Assembly for testing shot for fragility and evaluating the quality of the shot. Vest. mash. 31, No. 10, 1951.

9. Monthly List of Russian Accessions, Library of Congress, September, 1952. Unclassified.

TARASOV, A.M., SVESHHIKOV, D.A.

THE STATE OF THE S

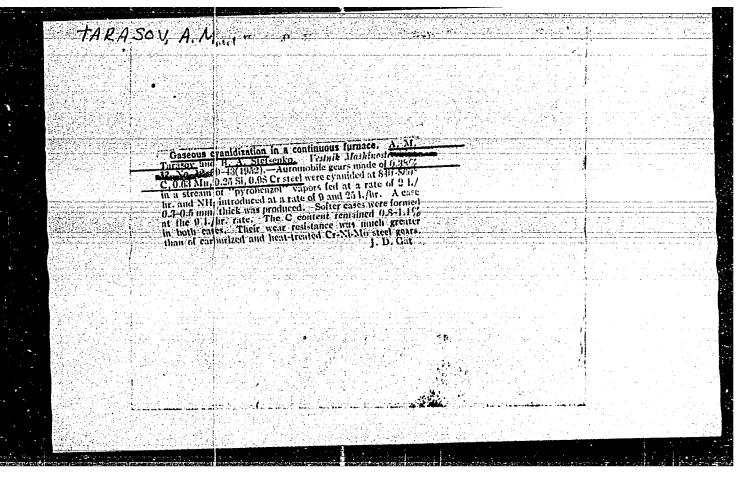
Metals--Finishing

Use of cast iron shot to increase the fatigue resistance of automobile parts by means of shot blasting. Avt.trakt.prom., no. 2, 1952.

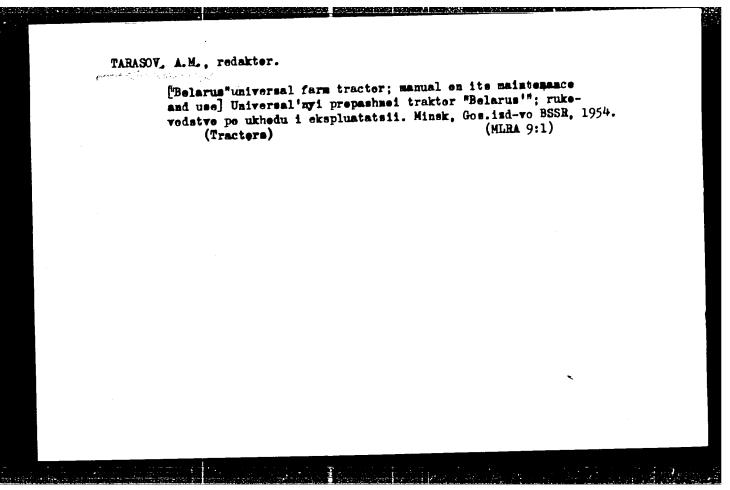
9. Monthly List of Russian Accessions, Library of Congress, JUNE 1952 to Uncl.

- 1. TARASOV. A. M., Erer., SVESHNIKOV, D. A., Engr.
- 2. SSSR (600)
- 4. Netal-Patigue
- 7. Use of steel pellets for surface hardening of machine parts. Vest. mash. 32 No. 8, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.



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Motals - Hort
Treatment



TARASOV, A.M.

USSR/Miscellaneous

Card 1/1 : Pub. 12 - 8/15

Authors : Tarasov, A. M., and Stetsenko, B. A.

Title : Use of kerosens as a carburizing agent for gaseous cementation

Periodical /: Avt. trakt. prom. 2, 25-28, Feb 1954

Abstract: The use of lighting kerosene (standard GOST 4753-49) in the role of carburizing agent for gaseous cementation in continuous-operation furnaces, with direct feeding of the liquid carburizing medium and in shaft furnaces, is described. The strength of details cemented in the lighting kerosene and pyro benzene, is identical. Methods of

with lighting kerosene and pyro benzene, is identical. Methods of reducing the soot formation and improving the circulation of the carburizing agent between the treated details, are presented. Tables;

graphs; drawings; illustrations.

Institution: The V. M. Molotov Automobile Plant, Gorkly

Submitted : ••••

TARASOV, A. M.

USSR/ Engineering - Metal hardening

Card

: 1/1 Pub. 128 - 14/32

Authors

: Tarasov, A. M. and Stetsenko, B. A.

Title

Hardening of metal by a diffusion process with high frequency heating of

components.

Periodical

Vest. mash. 34/7, 50 - 52, July 1954

Abstract

Hardening of metal by gas diffusion with high frequency heating of components, is described. General information is given on diffusion processes, hardening, cyanization, temperatures, and types of steel. Illustrations;

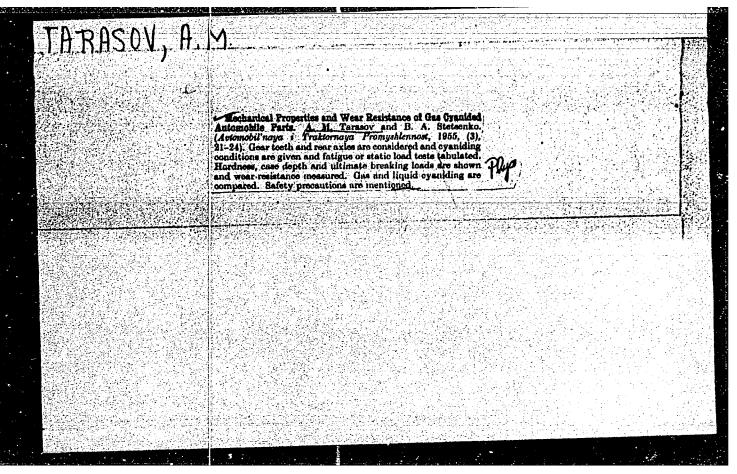
drawing.

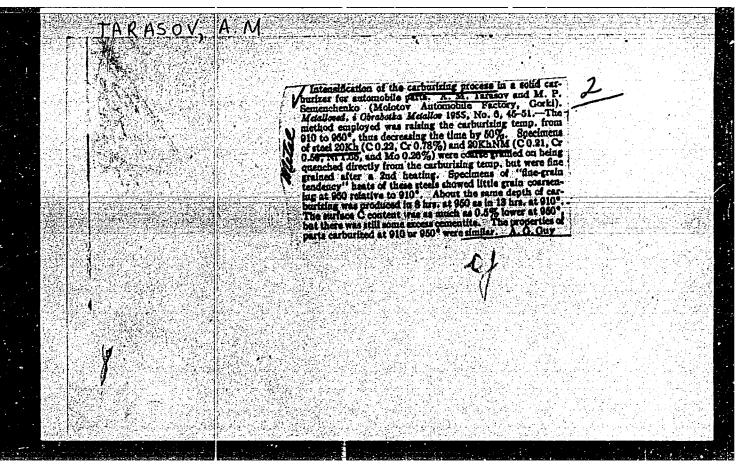
Institution

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Submitted

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TARASOV,	A. M.
Card 1/1	Pub. 128 - 22/35
Authors :	Tarasov, A. M., and Stetsenko, B. A., Engineers
Title :	Defects of cementation in a hard carbonizer
Periodical :	Vest. mesh. 35/3, 70 - 73, May 1955
Abstract :	A description is given of experiments conducted in cementation in a hard carbonizer in place of gas cementation. The method of operation, materials used, temperatures applied, rates of heating and cooling and other points are examined as to their effect on the finished product. The disadvantages of the use of a hard carbonizer in place of gas are pointed out. Four USSR references (1949-1953). Illustrations; diagrams; graphs; table.
Institution:	
Submitted :	. 사람들의 발표 전 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1

BOYKOV, Petr Ivanovich; DEONG, I.I.; PRITSKKR, P.Ya.; RUBINSHTMYN, Sh.Ya.;

TARASOV, A.M., inzhener, redaktor; PESTMYAKOV, A.I., redaktor;

PEDOTOVA, A.J., tekhnicheskiy redaktor

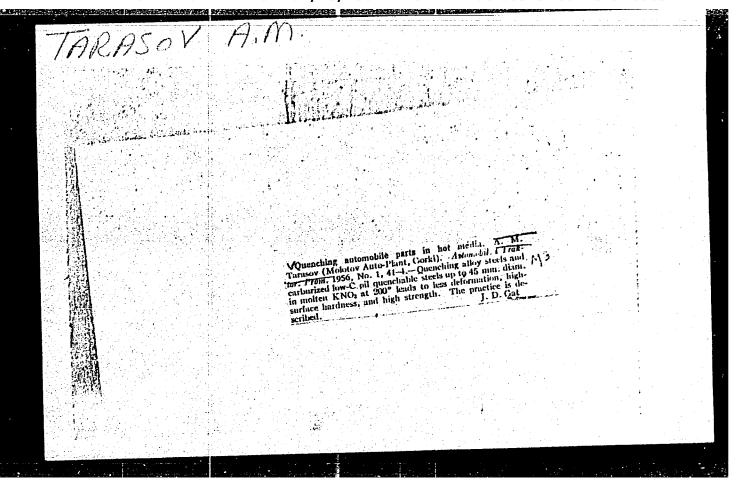
["Belarus" MTS-1 and MTZ-2 tractors] Traktory "Belarus" MTS-1

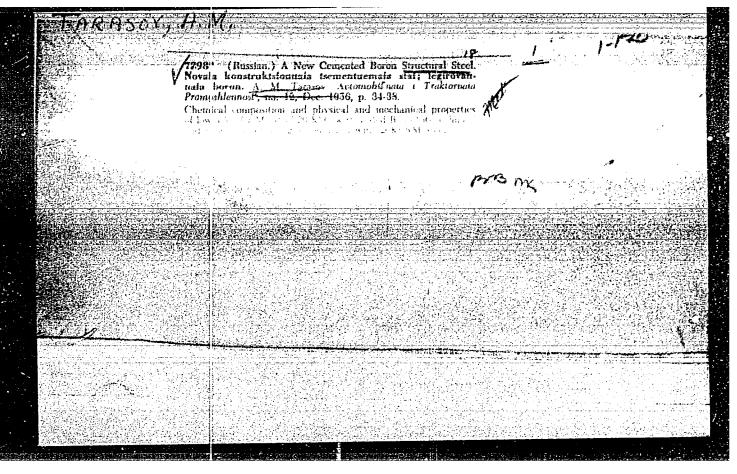
i MTZ-2. Pod red. A.M.Tarasova. Moskva, Gos. izd-vo selkhoz. lit-ry,
1956. 350 p.

(Tractors)

(Tractors)

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754920009-4





137-58-5-11145

TARASOV, A.M.
Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 320 (USSR)

AUTHOR: Tarasov, A.M.

TITLE: A Layer Method for the Chemical Analysis of Thermochemical

Treatment Procedures (Primeneniye metoda posloynogo khimicheskogo analiza pri issledovanii protsessov khimiko-termi-

cheskoy obrabotki)

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PERIODICAL: V sb.: Materialy nauchno-tekhn. konferentsii rabotnikov

zavodsk. laboratoriy. Rostov-na-Donu, 1957, pp 41-54

ABSTRACT: The chemical layer analysis is suggested as the most ef-

fective method of controlling the process of thermochemical treatment in the course of cementation of metal parts. A layer of definite thickness, removed by means of a lathe from special specimens treated in the same manner as the production parts is subjected to chemical analysis. Experiments revealed differences in the degree of saturation of the carburized layer in parts which have been subjected to cementation with solid and gaseous carburizers. Curves showing the distribution of C in a carburized layer were obtained. Drawbacks of the employment

Card 1/2 of solid carburizers were revealed. The influence of BaCO3 as

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Millage of the Artist Co. For Stud-

A Layer Method for the (cont.)

an activating agent on the nature of C saturation of steel in the process of cementation with a solid carburizer was determined more precisely. Optimal conditions were established for shop processes of cementation. The method described was also employed in the investigation of steels alloyed with small quantities of B. The effect of the B on the process of saturation of steel during cementation was ascertained; a decrease in diffusion became apparent when the B content amounted to 0.004-0.008%. It was demonstrated that the chemical composition of the steel affects the degree of C saturation on the surface of a carburized layer.

1. Metals--Hardening 2. Metals--Thermochemistry 3. Metals--Analysis Yu.B.

Card 2/2

619

Tarasov, A.M., Ing. and Semenchenko, M.R., Ing. (Gorky Automobile Works imeni V. M. Molotov). AUTHORS:

Influence of the content of BaCO₃ in the carburiser on the quality of the carburised layer. (Vliyaniye soderzhaniya uglekislogo bariya v karbyurizatore

na kachestvo tsementovannogo sloya).

PERIODICAL: "Metallovedenie i Obrabotka Metallov" (Metallurgy and

Metal Treatment), 1957, No.5, pp.49-53 (U.S.S.R.)

In the Gorky Automobile Works the carburising mixture ABSTRACT:

consists of 25% fresh and 75% used carburisation material whereby the fresh carburising material contains 60 to 70% peat semi-coke, 20-25% BaCO₃, 3.5-5% CaCO₃, 0.5-1.5% SiO₃ and up to 0.1% S. Data collected over two years showed that the BaCO₃ content in the carburiser varies between 3 and 11% and for the most frequently occurring contents, between 5 and 7%,

the carbon content on the surfaces of the carburised components usually varies between 1.5 to 2.5%, although the optimum would be between 0.8 and 1.0%. The work described in this paper aimed at determining the optimum content of Baco, in the carburisation obtaining a carburised

mixture which would ensure layer with a carbon content near to that of eutectoidal

saturation. The compositions of the investigated

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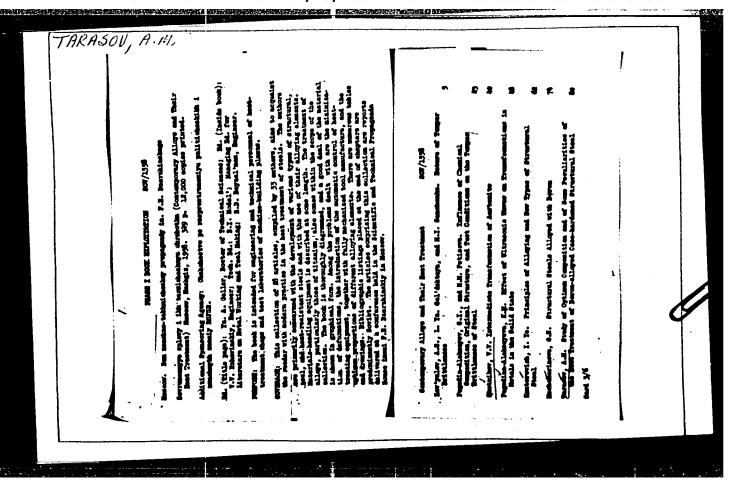
TITIE:

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Influence of the content of BaCO, in the carburiser on the quality of the carburised layer. (Cont.)

steels are given in Table 1, p.50, the carburisation regime and the depths of the carburisation layer in a mixture with various additions of the fresh carburiser are enumerated in Table 2, p.50. The dependence of the carburisation depths on the BaCOz content is plotted in Fig.2, whilst the distribution of the carbon in the carburised layer for various percentages of the content of fresh carburiser is plotted in Fig.3, whilst Fig.4 shows the carbon content in the carburised layer at depths of 0.025, 0.05, 0.1 and 0.3 mm as a function of the BaCO, content in the carburiser for two steels. It was found that changes between 0% and 25% of the fresh carburisation mixture containing 20 to 25% of BaCOz has a negligible influence on the depth of the carbdrised layer. An increase in the content of Bacoz up to 5% brings about an increase in the depth of the carburised layer and of the zone with above eutectoidal carbon content; further increase, beyond 5%, does not bring about any further increase in the depth of the carburised layer. It is advisable to reduce the content of BaCO, in the carburising mixture to between 1 and 3%. 4 figures, 2 tables; 2 Russian references.

Card 2/2



TARASOV, A.M.

7

KISELEV, I.I.; BORISOV, N.I.; YASINOVSKIY, B.S., inzh.; SANNIKOV, Yu.K., inzh.; SOKOLOV, V.A., inzh.; LEVCHENKO, L.D., inzh.; NALOYEV, G.A., inzh.; CHICHAKOV, K.K., inzh.; BARYKIH, V.I., inzh.; FREYDLIM, A.Ya., inzh. GULTAYEV, A.I., inzh.; STIGNEYEV, Ya.F., inzh.; SHAGANOVA, K.N., inzh.; KHELIMSKIY, I.Ye., inzh.; AVROV, A.N., inzh.; DEMIDOVA, M.I., inzh.; MIKIFOROVA, Ye.D., inzh.; KLIBANOVA, F.I., inzh.; CHIVKUNOV, K.I., inzh.; STOROZHKO, I.G., inzh.; NOVAKOVSKIY, Ye.Ya., inzh.; GOYKHTUL', A.O., inzh.; TARASOV, A.M., inzh.; SHISHKO, A.P., inzh.; UVAROV, P.T., ekonomist; DRAGUNOV, M.V., ekonomist; KARANDASHOV, A.A., ekonomist; KONKIN, M.V., ekonomist; GOREV, M.S., ekonomist. Prinimali uchastiye: LAPIN, T.I.; RAMENSKIY, Yu.A.; KADINSKIY, B.A.; SOKOLOV, S.D.; STOROZHKO, I.G.; FOMINYKH, A.I.. POLYAKOVA, M., red.: SMIRNOV, G., tekhn.red.

> [Organization and improvement of production; practices of the Gorkiy Automobile Plant] Organizatsiia i sovershenstvovanie proizvodstva; opyt Gor'kovskogo avtozavoda. Moskva, Gos. izd-vo (MIRA 12:2) polit. lit-ry. 1958. 332 p.

1. Direktor Gor'kovskogo avtomobil'nogo zavoda (for Kiselev).

2. Glavnyy inshener Gor'kovskogo avtomobil'nogo savoda (for Borisov).

3. Gor'kovskiy sytomobil'nyy zavod (for all except Kiselev, Borisov, Polyakova, Smirnov).

(Gorkiy--Automobile industry)

sov-113-58-8-15/21

AUTHOR: Tarasov, A.M., Candidate of Technical Sciences

TITLE: Steels Used for Motor Parts in the USA (Stali primenyay-

emyye dlya avtomobil'nykh detaley v SShA)

PERIODICAL: Avtomobil'naya promyshlennost', 1958, Nr 8, pp 41-44 (USSR)

ABSTRACT: The article contains the results of an analysis of steels used in the manufacture of the different parts of the trans-

used in the manufacture of the difference for the 1956 model Ford-500, Dodge-mission and underframe for the 1956 model Ford-500, Dodge-6G-129 and Chevrolet-5700 trucks. The analysis was carried out in the Gor'kovskiy avtozavod (Gor'kiy Motor Vehicles Plant). There are 3 tables, 2 graphs and 4 Soviet referen-

ces.

ASSOCIATION: Gor'kovskiy avtozavod (Gor'kiy Motor Vehicle Plant)

1. Automobile industry--USA 2. Steel--Applications

Card 1/1

SOV/129-58-9-9/16

Tarasov, A.M., Candidate of Technical Science and AUTHORS:

Semenchenko, M. R., Engineer

The Possibility of Increasing the Carburization TITLE: Temperature Inside a Solid Carburizer to 980°C

(Vozmozhnost' povysheniya temperatury tsementatsii

v tverdom karbyurizatore do 980°)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, Nr 9,

pp 39-42 (USSR)

Card 1/4

The Gorky Automobile Works introduced in 1954 a process ABSTRACT:

of carburization inside a solid carburizer at 950°C instead of 910°C. In this paper the possibility is

studied of applying still higher carburization

temperatures for the purpose of increasing further the productivity of the process. In earlier work of the authors (Ref 1) it was established that in the case of carburization inside a solid carburizer at an increased

temperature, the degree of carbon saturation of the periphery of the carburized layer decreases. The intensive growth of the austenite grain for fine grain

steels (20, 20Kh, 20KhGR and 20KhNM) begins in the case of heating above 1000°C. Daily inspection of